**PCT** 

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 4-32548A/USN				FOR FURTHER ACTION  See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)			
ľ	nationa		cation No. 94	International filing date (	day/month/year)	Priority date (day/month/year) 28.06.2002	
	nationa K31/5		nt Classification (IPC) or bo	oth national classification a	and IPC		
	icant E ADN	MNIS	STRATORS OF THE	TULANE EDUCATIO	NAL FUND		
1.	<ol> <li>This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</li> </ol>						
2.	2. This REPORT consists of a total of 5 sheets, including this cover sheet.						
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
	Thes	se an	nexes consist of a total o	of sheets.			
3.	This	repo	rt contains indications re	elating to the following it	ems:		
	l ⊠ Basis of the opinion						
ŀ	II Priority						
	Ш	$\boxtimes$	Non-establishment of	opinion with regard to n	ovelty, inventive s	tep and industrial applicability	
	IV		Lack of unity of invent	ion			
	V  Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					ty, inventive step or industrial applicability;	
ļ	VI   Certain documents cit			ed			
VII   Certain defects in the international application							
	VIII ☐ Certain observations on the international application						
Date	e of sub	omissi	on of the demand		Date of completio	n of this report	
15.	15.12.2003				01.10.2004	•	
Nar	Name and mailing address of the international			nal	Authorized Officer		
prel	preliminary examining authority:  European Patent Office  D-80298 Munich  Tel. +49 89 2399 - 0 Tx: 523656 epmu d				Hornich, E	State of the state	
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## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/IB 03/02794

I.	Ba	sis	of	the	rep	ort
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages							
	1-11	I	as originally filed						
	Claims, Numbers								
	1-11	ı	as originally filed						
2.	With lang	With regard to the <b>language</b> , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.							
	The	These elements were available or furnished to this Authority in the following language: , which is:							
		the language of a tra	nslation furnished for the purposes of the international search (under Rule 23.1(b)).						
		the language of publi	cation of the international application (under Rule 48.3(b)).						
		the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).							
3.	With inte	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:							
		contained in the inter	national application in written form.						
		filed together with the	e international application in computer readable form.						
		☐ furnished subsequently to this Authority in written form.							
		l furnished subsequently to this Authority in computer readable form.							
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosur in the international application as filed has been furnished.							
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.							
4.	The	amendments have re	esulted in the cancellation of:						
		the description,	pages:						
		the claims,	Nos.:						
		the drawings,	sheets:						
5.		This report has been been considered to g	established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).						
(Any replacement sheet containing such amendments must be referred to under item 1 and report.)									
6.	Add	litional observations, i	f necessary:						

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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II.	II. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
1.	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:						
	☐ the entire international application,						
	☑ claims Nos. 4-11 (with regard to industrial applicability only)				bility only)		
because:							
	Ø	the said international application relate to the following subject (specify):	on, or t matter	the said clain which does i	ns Nos. 4-11 (with regard to industrial applicability only) not require an international preliminary examination		
	see separate sheet						
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
the claims, or said claims Nos. are so inadequately supported by the description that no meaningful could be formed.				ly supported by the description that no meaningful opinion			
		no international search report	has be	en establish	ed for the said claims Nos.		
2.	or a	A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative nstructions:					
	☐ the written form has not been furnished or does not comply with the Standard.				ot comply with the Standard.		
		the computer readable form h	as not	been furnish	ed or does not comply with the Standard.		
V.	<ul> <li>Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;</li> <li>citations and explanations supporting such statement</li> </ul>						
1.	Sta	tatement					
	No	velty (N)	Yes: No:	Claims Claims	7 and 11 1-6, 8-10		
	Inventive step (IS)		Yes: No:	Claims Claims	1-11		
	Ind	ustrial applicability (IA)	Yes: No:	Claims Claims	1-3		

Form PCT/IPEA/409 (January 2004)

2. Citations and explanations

see separate sheet

INTERNATIONAL PRELIMINARY



Claims 4-11 relate to subject-matter considered by this Authority to be covered by the 1. provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(i) PCT).

#### **SECTION V**

#### 2. References:

**D1**: WO 99 03854 A

D2: BOECKLIN F ET AL: 'Anti-fibrogenic effect of the tyrosine kinase inhibitor STI-571 on bone marrow fibrosis in chronic myeloid leukemia', BLOOD, vol. 96, no. 11 Part 1, 16 November 2000 (2000-11-16), page 734a, 42nd Annual Meeting of the American Society of Hematology; San Francisco, California, USA; December 01-05, 2000 ISSN: 0006-4971.

D3: M.H. BEERS, R. BERKOW: 'The Merck Manual of Diagnosis and Therapy' 1999, MERCK RESEARCH LABORATORIES, WHITEHOUSE STATION, N.J.

- 3. Novelty (Art. 33(2) PCT)
- D1 discloses crystal forms of the methanesulfonic acid salt of imatinib, in particular 3.1 the B-crystal form. The compound is useful for the treatment of non-malignant proliferative diseases, for instance fibrosis (p. 11, l. 4, 5). The compound may as well be used for treating or preventing obliterative bronchiolitis (p. 9, paragraph 3). According to D3, bronchiolitis obliterans is a disease involving the obstruction of bronchioles and alveolar ducts by fibrous granulation tissue.

D1 would thus destroy the novelty of the subject-matter of claims 1-6 and 8-10.

3.2 The novelty of the subject-matter of claims 1, 4-6, 8 and 9 would as well be anticipated by the disclosure of D2. The document teaches that 'STI-571 inhibits pathological fibrosis in liver and lung.

### INTERNATIONAL PRELIMINARY **EXAMINATION REPORT - SEPARATE SHEET**

4.

Inventive Step (Art. 33(3) PCT)

- The subject-matter of claims 7 and 11 which would appear to be novel relates to administration regimen and dosages which would be considered a matter of routine optimization.
  - An inventive step could therefore not be acknowledged for the subject-matter of the aforementioned claims.
- 4.2 It is furthermore pointed to the following document which was not cited in the international search report.
  - D4: GISSLINGER, H. ET AL.: 'Imatinib Mesylate in Chronic Idiopathic Myelofibrosis, a Phase II Trial', BLOOD, vol. 100, no. 11, ABSTRACT NO.3161.

**D4** reports on a phase II trial of imatinib mesylate in chronic idiopathic myelofibrosis. It is noted that treatment with imatinib had to be withdrawn in one patient due to lung fibrosis.

- 5. Industrial Applicability (Art. 33(4) PCT)
- The requirements of industrial applicability would be fulfilled for the subject-matter of claims 1-3.
- 5.2 For the assessment of the present claims 4-11 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.